

CLOSED LANDFILL INSPECTION GUIDANCE

version: October 6, 2003

FACILITY NAME

SWMF PERMIT No. _____ FACILITY TYPE

INSPECTION OF _____ CLOSURE DATE
(identify disposal unit / site / etc.)

This inspection guidance is intended for use by DEQ solid waste compliance staff for inspections of solid waste landfills and/or solid waste disposal units that have completed closure activities and are subject to post-closure care requirements. Answers underlined and in bold print indicate a potential violation.

DATE OF INSPECTION _____ INSPECTOR

THIS SECTION TO BE COMPLETED ON-SITE

VSWMR §§ 5.1.E.5.d.(1), 5.2.E.4., or 5.3.E.4. - (post 12-21/88 landfills: closed sign, access restricted)

X Is at least one sign posted which indicates that the landfill (or disposal unit) is closed and prohibits the further receipt of waste material?

YES N/A **NO**

X Are suitable barriers in place at former accesses which prevent new waste from being deposited?

YES N/A **NO**

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X Is there evidence of waste being disposed on the cell or site since it closed?

YES N/A **NO**

If yes, describe.

VSWMR § 2.4.E.1. - [facilities that stopped accepting waste before Dec. 21, 1988: applicability of VSWMR]

X Has a final cover consisting of a minimum depth of two feet of earth or approved material been placed on the disposal area and graded so that surface water will not pool on the surface ?

YES N/A **NO**

VSWMR §§ 5.1.E.1.a., 5.2.E.1.a., or 5.3.E.1.a. - (post 12-21/88 landfills: final cover)

X Is a final cover system in place which minimizes the need for further maintenance, and minimizes or eliminates the post-closure escape of uncontrolled leachate, surface runoff, decomposition gas migration, or waste decomposition products to the groundwater, surface water, or to the atmosphere?

YES N/A **NO**

X Describe the type of final cover system:

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VSWMR §§ 5.1.F.1.a., 5.2.F.1.a., or 5.3.F.1.a. - (post 12-21/88 landfills: final cover)

X Is adequate vegetative cover established and being maintained as part of the final cover?

YES N/A **NO**

X Is there evidence of settlement, subsidence, erosion, or other events which have damaged the final cover?

YES N/A NO

If yes, describe.

X Is the owner or operator making repairs to the cover as necessary to correct any damage?

YES N/A **NO**

X Is run-on and run-off being prevented from eroding or otherwise damaging the final cover?

YES N/A **NO**

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VSWMR § 2.4.E.1., or § 4.1. - [all facilities: **open dump determination**]

X Are releases, as defined in VSWMR Part I, coming from this facility or disposal unit?

YES N/A NO

If yes, are the releases causing the site to be classified as an open dump, a hazard, or a nuisance ?

YES N/A NO

X Has improper waste management occurred at the facility ?

YES N/A NO

If yes, has this activity created a hazard or nuisance which is dangerous to public health, safety, or the environment ?

YES N/A NO

If yes, describe.

X Is public access controlled so as not to expose the public to potential health and safety hazards at the site?

YES N/A **NO**

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X Does the facility fail for any of the open dump criteria listed in VSWMR § 4.1.?

YES N/A NO

If yes, indicate the criteria and describe.

<p>Note: Landfills that properly closed, prior to December 21, 1988, with a final cover consisting of a minimum depth of two feet of earth or approved material placed over the disposal area and graded so that surface water will not pool on the surface, and are not an open dumps, hazards, or nuisances, are not subject to regulation under the VSWMR section.</p> <p>If the landfill is not subject to the VSWMR, skip the remainder of this section.</p>

VSWMR §§ 5.1.F.1.b., 5.2.F.1.b., or, 5.3.F.1.b. - [post 12-21/88 facilities: leachate collection system]

X Is a leachate collection system being maintained and operating in accordance with the requirements of VSWMR § 5.5.?

YES N/A NO

(See Leachate Collection System Inspection Guidance for Additional Questions)

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VSWMR §§ 5.1.F.1.c., 5.2.F.1.c., or, 5.3.F.1.c. - [post 12-21/88 landfills: groundwater monitoring system]

- X Is a groundwater monitoring system being maintained and operating in accordance with the requirements of VSWMR §§ 5.1.D, 5.2.D., or 5.3.D., as applicable?

YES N/A **NO**

(See Groundwater Monitoring Inspection Guidance for Additional Questions)

VSWMR §§ 5.1.F.1.d., 5.2.F.1.d., or, 5.3.F.1.d. - [post 12-21/88 landfills: gas monitoring system]

- X Is a gas monitoring system being maintained and operating in accordance with the requirements of VSWMR § 5.4., as applicable?

YES N/A **NO**

(See Gas Monitoring Inspection Guidance for Additional Questions)

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THIS SECTION CAN BE COMPLETED OFF-SITE

VSWMR § 2.4.E.1. - [all facilities: applicability of VSWMR]

X Did this facility stop accepting waste before December 21, 1988 ?

YES N/A NO

Note: Landfills that properly closed, prior to December 21, 1988, with a final cover consisting of a minimum depth of two feet of earth or approved material placed on the disposal area and graded so that surface water will not pool on the surface, and are not an open

Note: If a landfill or disposal unit is not subject to the VSWMR, the remainder of this inspection guidance does not apply.

dumps, hazards, or nuisances, are not subject to regulation under the VSWMR.

VSWMR §§ 5.1.F.2., 5.2.F.1., or 5.3.F.1. - [post 12-21/88 landfills: post-closure period]

X What is the prescribed post closure care period for this facility as described in VSWMR § 5.1.F.2?

10 year 30 year Other

Unless modified by a variance, the post-closure care period is 10 years for Industrial and CDD landfills without leachate, and Sanitary landfills that ceased accepting waste by October, 9, 1993. For Sanitary landfills that accepted waste after October 9, 1993, the post-closure care period is 30 years. For Industrial and CDD landfills with leachate, the post-closure care period is for as long as leachate is generated.

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VSWMR 3 5.1.F.3., 5.2.F.2., or 5.3.F.3. - [post 12-21/88 landfills: change in post-closure period]

X Has this post closure period been increased or decreased by the Director? Why?

Increased Decreased N/A

If so, what is the current post closure care period for the landfill?

X As of the date of this inspection, how much of the post closure care period remain for this landfill?

<p>Note: If a facility, or unit, has completed its post-closure care period the owner or operator is required to submit to the Director, a certification, signed by an independent registered professional engineer, verifying that post-closure care has been completed in accordance with the post-closure care plan.</p>

VSWMR 3 5.1.E.5.b. - [post 12-21/88 sanitary landfills: PE certification]

X Has the owner or operator submitted to the Department, a certification, signed by an independent registered professional engineer, (or the owner, for SLFs that closed between 12-21/88 and 3-14/93), verifying that closure has been completed in accordance with the closure plan?

YES N/A **NO**

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VSWMR §§ 5.1.E.5.d.(2)., 5.2.E.5., or 5.3.E.6. - [post 12-21/88 landfills: survey plat]

- X Has the owner or operator submitted to the local land recording authority a survey plat, prepared by a professional land survey, or other appropriate person, which identifies the location and dimension of the landfill disposal areas and the location and identification number of groundwater and gas monitoring wells?

YES N/A **NO**

If yes, does the survey plat contain a note, prominently displayed, which states the owner=s or operator=s future obligation to restrict disturbance of the site as specified in VSWMR § 5.1.F.4.c.?

YES N/A **NO**

<p>Note: In accordance with the VSWMR, post-closure use of the property should not disturb the integrity of the final cover, liner(s), or any other components of the containment system, or the function of the monitoring systems unless necessary to comply with the requirements of the VSWMR. Under certain conditions, the Director can approve of disturbances to the above.</p>

VSWMR §§ 5.1.E.5.d.(3)., 5.2.E.6., or 5.3.E.7. - [post 12-21/88 landfills: deed notation]

- X Has the owner or operator recorded a notation on the deed to the facility property, or on some other instrument which is normally examined during title searches, which notifies any potential purchaser of the property that the land has been used to manage solid waste and its use is restricted under the VSWMR?

YES N/A **NO**

If yes, has a copy of the recorded deed notation been filed with the Department?

YES N/A **NO**

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VSWMR 5.1.F.4.(a-c), 5.2.F.3. (a-c), or 5.3.F.3.(a-c). - [post 12-21/88 landfills: post-closure plan]

X Does the owner or operator have a written post-closure plan, in the operating record, that includes at minimum:

- the name, address, and telephone number of the person, or office, to contact about the facility during the post-closure period?

YES N/A **NO**

- a description of the activities for monitoring and maintaining the integrity and effectiveness of any final cover and which identifies the frequency of performing those activities?

YES N/A **NO**

- a description of the activities for operating and maintaining the leachate collection system in accordance with the requirements of VSWMR 5.5. and which identifies the frequency of performing those activities?

YES N/A **NO**

<p>Note: The director may allow the owner or operator to stop managing leachate at the facility if the facility demonstrates that leachate at the facility no longer poses a threat to human health or the environment.</p>

- a description of the activities for monitoring and maintaining a groundwater monitoring program in accordance with the requirements of the applicable sections of the VSWMR, and which identifies the frequency of performing those activities?

YES N/A **NO**

- a description of the activities for monitoring and maintaining a gas monitoring program in accordance

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with the requirements of VSWMR § 5.4. and which identifies the frequency of performing those activities?

YES N/A **NO**

- a description of the planned uses of the property during the post-closure care period?

YES N/A **NO**

if yes, what is the planned use of the property during the post-closure care period?

VSWMR §§ 5.1.E.5., 5.2.F.4., or 5.3.F.4. - [post 12-21/88 landfills: post-closure plan notification]

X Has the owner or operator notified the Department that a post-closure care plan has been prepared and placed in the facility's operating record?

YES N/A **NO**

FARofSWF § 2.4.A. - [post 12-21/88 landfills: applicability]

X Is the landfill or disposal unit required to maintain liability insurance and financial assurance for post-closure care?

YES N/A NO

Note: If a landfill or disposal unit is not subject to the Financial Assurance Regulations for Solid Waste Facilities, the remainder of this inspection guidance does not apply.

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FARofSWF 3.4.B.1. - [post 12-21/88 landfills: post-closure cost estimate]

- X Is a written estimate of the cost of post-closure care, (including monitoring, maintenance, and corrective action), included in the closure or post-closure plans for the landfill?

YES N/A **NO**

if yes what is the written amount of the estimate for post closure care?

what is the written amount of the liability insurance?

FARofSWF 3.3.A.1. - [post 12-21/88 landfills: evidence of post-closure care financial responsibility]

- X Does the owner or operator maintain an appropriate financial responsibility instrument with the Department, as described in this section, to cover, at minimum, the amount of the estimates above?

YES N/A **NO**

FARofSWF 3.3.A.2. - [post 12-21/88 landfills: evidence of liability coverage]

- X Does the owner or operator maintain an appropriate financial responsibility instrument with the Department, as described in this section, to cover, at minimum, the required amount of coverage as indicated in FARofSWF 3.6.D, 3.6.E, 3.6.F.?

YES N/A **NO**

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FARofSWF § 3.5.A.: - [post 12-21/88 landfills: financial assurance mechanisms]

- X Does the owner or operator have a separate financial responsibility instrument provided for post-closure, (i.e., not the same mechanism as for closure)?

YES N/A **NO**

- X What financial assurance instrument is in place for post-closure care?

- X What financial assurance instrument is in place for liability insurance?

- X Has the financial assurance documentation been updated annually?

YES N/A **NO**

Va. Code § 10.1-1408.1.C.3.: - [post 12-21/88 landfills: updated disclosure statement]

Has the permit holder updated the disclosure statement to indicate any necessary change of condition that renders any portion of the disclosure statement materially incomplete or inaccurate?

YES N/A **NO**